

DOCUMENT RESUME

ED 474 451

SE 067 485

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TITLE Mathematics Teaching Cases. Number Sense and Operations in the Primary Grades: Hard to Teach and Hard to Learn? Casebook Facilitator's Guide.

ISBN ISBN-0-325-00546-X

PUB DATE 2003-00-00

NOTE 185p.

AVAILABLE FROM Heinemann, 361 Hanover Street, Portsmouth, NH 03801-3912 (\$20.00; Online: \$18.00). Web site: www.heinemann.com.

PUB TYPE Books (010) -- Guides - Classroom - Teacher (052) -- Reports - Descriptive (141)

EDRS PRICE Document Not Available From EDRS.

DESCRIPTORS *Arithmetic; Elementary Education; Learning Problems; *Mathematics Instruction; *Numeracy; Teaching Methods

ABSTRACT

This book introduces case studies in mathematics education that provide teachers with opportunities to look at someone else's teaching in an objective way and analyze their own teaching with a critical eye. In addition, this book addresses many of the topics considered the hardest to teach and learn, including place value, number sentences, basic facts, addition, subtraction, and regrouping. Each case is designed to promote analysis of four elements: (1) mathematics; (2) student thinking; (3) instruction; and (4) language. The specific goals of the cases are to help deepen teachers' understanding of the mathematics they teach; experience mathematics from their students' points of view to understand what is confusing and why; examine various teaching strategies for their benefits and drawbacks; and understand how oral, symbolic, and written communications impact mathematics learning. (KHR)

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